

ABSTRACT

A system for determining the condition of a device or process uses the inter-arrival times of successive acoustic emission events generated by the device or process being monitored. From this measurement, the system determines a statistical distribution, preferably a Weibull distribution, to determine a shape to life parameter for characterizing the device or process being monitored. The system allows a simple and effective determination of the condition of a device or process, taking into account operating conditions and which can monitor also the state of healthy components.